

SEQUENCE LISTING

<110> O'Brien, Timothy J.
 Underwood, Lowell J.
 <120> Extracellular Serine Protease
 <130> D6020CIP4
 <141> 2003-08-29
 <150> US 09/796,294
 <151> 2001-02-28
 <160> 75
 <210> 1
 <211> 144
 <212> PRT
 <213> unknown
 <220>
 <221> DOMAIN
 <223> Amino acid sequence of Protease m (Prom) catalytic domain
 <400> 1
 Trp Val Leu Thr Ala Ala His Cys Lys Lys Pro Asn Leu Gln Val
 5 10 15
 Phe Leu Glu Lys His Asn Leu Arg Gln Arg Glu Ser Ser Gln Glu
 20 25 30
 Gln Ser Ser Val Val Arg Ala Val Ile His Pro Asp Tyr Asp Ala
 35 40 45
 Ala Ser His Asp Gln Asp Ile Met Leu Leu Arg Leu Ala Arg Pro
 50 55 60
 Ala Lys Leu Ser Glu Leu Ile Gln Pro Leu Pro Leu Glu Arg Asp
 65 70 75
 Cys Ser Ala Asn Thr Thr Ser Cys His Ile Leu Gly Trp Gly Lys
 80 85 90
 Thr Ala Asp Gly Asp Phe Pro Asp Thr Ile Gln Cys Ala Tyr Ile
 95 100 105
 His Leu Val Ser Arg Glu Glu Cys Glu His Ala Tyr Pro Gly Gln
 110 115 120
 Ile Thr Gln Asn Met Leu Cys Ala Gln Asp Glu Lys Tyr Gly Lys
 125 130 135
 Asp Ser Cys Gln Gly Asp Ser Gly Gly
 140
 <210> 2
 <211> 148
 <212> PRT
 <213> *Homo sapiens*
 <220>

<222> DOMAIN
 <223> Amino acid sequence of Tadgl4 catalytic domain

<400> 2
 Trp Val Val Thr Ala Ala His Cys Lys Lys Pro Lys Tyr Thr Val
 5 10 15
 Arg Leu Gly Asp His Ser Leu Gln Asn Lys Asp Gly Pro Glu Gln
 20 25 30
 Glu Ile Pro Val Val Gln Ser Ile Pro His Pro Cys Tyr Asn Ser
 35 40 45
 Ser Asp Val Glu Asp His Asn His Asp Leu Met Leu Leu Gln Leu
 50 55 60
 Arg Asp Gln Ala Ser Leu Gly Ser Lys Val Lys Pro Ile Ser Leu
 65 70 75
 Ala Asp His Cys Thr Gln Pro Gly Gln Asn Cys Thr Val Ser Gly
 80 85 90
 Trp Gly Thr Val Thr Ser Pro Arg Glu Asn Phe Pro Asp Thr Leu
 95 100 105
 Asn Cys Ala Glu Val Lys Ile Phe Pro Gln Lys Lys Cys Glu Asp
 110 115 120
 Ala Tyr Pro Gly Gln Ile Thr Asp Gly Met Val Cys Ala Gly Ser
 125 130 135
 Ser Lys Gly Ala Asp Thr Cys Gln Gly Asp Ser Gly Gly
 140 145

<210> 3
 <211> 146
 <212> PRT
 <213> unknown

<220>
 <221> DOMAIN
 <223> Amino acid sequence of trypsin like serine protease
 (Try1) catalytic domain

<400> 3
 Trp Val Val Ser Ala Gly His Cys Tyr Lys Ser Arg Ile Gln Val
 5 10 15
 Arg Leu Gly Glu His Asn Ile Glu Val Leu Glu Gly Asn Glu Gln
 20 25 30
 Phe Ile Asn Ala Ala Lys Ile Ile Arg His Pro Gln Tyr Asp Arg
 35 40 45
 Lys Thr Leu Asn Asn Asp Ile Met Leu Ile Lys Leu Ser Ser Arg
 50 55 60
 Ala Val Ile Asn Ala Arg Val Ser Thr Ile Ser Leu Pro Thr Ala
 65 70 75
 Pro Pro Ala Thr Gly Thr Lys Cys Leu Ile Ser Gly Trp Gly Asn
 80 85 90
 Thr Ala Ser Ser Gly Ala Asp Tyr Pro Asp Glu Leu Gln Cys Leu
 95 100 105
 Asp Ala Pro Val Leu Ser Gln Ala Lys Cys Glu Ala Ser Tyr Pro
 110 115 120
 Gly Lys Ile Thr Ser Asn Met Phe Cys Val Gly Phe Leu Glu Gly
 125 130 135

Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly
140 145

<210> 4
<211> 144
<212> PRT
<213> unknown

<220>
<221> DOMAIN
<223> Amino acid sequence of stratum corneum chymotryptic enzyme (scce) catalytic domain

<400> 4
Trp Val Leu Thr Ala Ala His Cys Lys Met Asn Glu Tyr Thr Val
5 10 15
His Leu Gly Ser Asp Thr Leu Gly Asp Arg Arg Ala Gln Arg Ile
20 25 30
Lys Ala Ser Lys Ser Phe Arg His Pro Gly Tyr Ser Thr Gln Thr
35 40 45
His Val Asn Asp Leu Met Leu Val Lys Leu Asn Ser Gln Ala Arg
50 55 60
Leu Ser Ser Met Val Lys Lys Val Arg Leu Pro Ser Arg Cys Glu
65 70 75
Pro Pro Gly Thr Thr Cys Thr Val Ser Gly Trp Gly Thr Thr Thr
80 85 90
Ser Pro Asp Val Thr Phe Pro Ser Asp Leu Met Cys Val Asp Val
95 100 105
Lys Leu Ile Ser Pro Gln Asp Cys Thr Lys Val Tyr Lys Asp Leu
110 115 120
Leu Glu Asn Ser Met Leu Cys Ala Gly Ile Pro Asp Ser Lys Lys
125 130 135
Asn Ala Cys Asn Gly Asp Ser Gly Gly
140

<210> 5
<211> 159
<212> PRT
<213> unknown

<220>
<221> DOMAIN
<223> Amino acid sequence of hepsin (heps) catalytic domain

<400> 5
Trp Val Leu Thr Ala Ala His Cys Phe Pro Glu Arg Asn Arg Val
5 10 15
Leu Ser Arg Trp Arg Val Phe Ala Gly Ala Val Ala Gln Ala Ser
20 25 30
Pro His Gly Leu Gln Leu Gly Val Gln Ala Val Val Tyr His Gly
35 40 45
Gly Tyr Leu Pro Phe Arg Asp Pro Asn Ser Glu Glu Asn Ser Asn
50 55 60

Asp	Ile	Ala	Leu	Val	His	Leu	Ser	Ser	Pro	Leu	Pro	Leu	Thr	Glu	
				65					70					75	
Tyr	Ile	Gln	Pro	Val	Cys	Leu	Pro	Ala	Ala	Gly	Gln	Ala	Leu	Val	
				80					85					90	
Asp	Gly	Lys	Ile	Cys	Thr	Val	Thr	Gly	Trp	Gly	Asn	Thr	Gln	Tyr	
				95					100					105	
Tyr	Gly	Gln	Gln	Ala	Gly	Val	Leu	Gln	Glu	Ala	Arg	Val	Pro	Ile	
				110					115					120	
Ile	Ser	Asn	Asp	Val	Cys	Asn	Gly	Ala	Asp	Phe	Tyr	Gly	Asn	Gln	
				125					130					135	
Ile	Lys	Pro	Lys	Met	Phe	Cys	Ala	Gly	Tyr	Pro	Glu	Gly	Gly	Ile	
				140					145					150	
Asp	Ala	Cys	Gln	Gly	Asp	Ser	Gly	Gly							
				155											

<210> 6
 <211> 1360
 <212> DNA
 <213> *Homo sapiens*

<220>
 <223> Nucleotide sequence encoding Tumor Antigen Derived
 Gene-14 (TADG-14) protein; nt 1344-1360 NCBI accession
 #AA343629

<400>	6														
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tgtaagaatg	tagggggtca	tggcttgtaa	tttacacagt	gtaaataaaa	ccatcctaga	120									
ggattatgag	gaatcctttc	tatgtgattt	tcaatcatag	caagcaagaa	aggctccagt	180									
gtcaaggtag	ttcagctctt	acaggatata	aaacagtcca	tacttgagag	aaaaaactta	240									
gatctgagtg	atggaatgtg	aagcaaactc	ttcaaaatca	gtagacattt	cttggacata	300									
aaacacagat	gaggaaaggg	cttcaaatta	gaagttacgt	aatcaccatc	agaaagttca	360									
tgtttggtaa	attctgttac	tagaaatgta	ggaaattcag	gtatagcttt	gaatcccaat	420									
tacacattgg	tcagtgggaa	aactaagggc	ctccaacagg	caaattcagg	gaggataggt	480									
ttcaggggat	gccctggatt	ctggaagacc	tcaccatggg	acgccccga	cctcgtgcgg	540									
ccaagacgtg	gatgttcctg	ctcttgctgg	ggggagcctg	ggcaggacac	tccagggcac	600									
aggaggacaa	gggtgctggg	gggtcatgagt	gccaaaccca	ttcgcagcct	tggcaggcgg	660									
ccttggtcca	gggccagcaa	ctactctgtg	gcggtgtcct	tgtaggtggc	aactgggtcc	720									
ttacagctgc	ccactgtaaa	aaaccgaaat	acacagtacg	cctgggagac	cacagcctac	780									
agaataaaga	tggccagag	caagaaatac	ctgtggttca	gtccatccca	caccctgct	840									
acaacagcag	cgatgtggag	gaccacaacc	atgatctgat	gcttcttcaa	ctgcgtgacc	900									
aggcatccct	ggggtccaaa	gtgaagccca	tcagcctggc	agatcattgc	accagcctg	960									
gccagaagtg	caccgtctca	ggctggggca	ctgtcaccag	tccccgagag	aattttcctg	1020									
acactctcaa	ctgtgcagaa	gtaaaaatct	ttccccagaa	gaagtgtgag	gatgcttacc	1080									
cggggcagat	cacagatggc	atggtctgtg	caggcagcag	caaaggggct	gacacgtgcc	1140									
agggcgattc	tggaggcccc	ctggtgtgtg	atggtgcact	ccagggcata	acatcctggg	1200									
gctcagaccc	ctgtgggagg	tccgacaaac	ctggcgtcta	taccaacata	tgccgctacc	1260									
tggactggat	caagaagatc	ataggcagca	agggctgatt	ctaggataag	cactagatct	1320									
cccttaataa	actcacaact	ctctgaaaaa	aaaaaaaaaa			1360									

<210> 7
 <211> 260
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Amino acid sequence of TADG-14 protein

<400> 7

Met	Gly	Arg	Pro	Arg	Pro	Arg	Ala	Ala	Lys	Thr	Trp	Met	Phe	Leu	
				5					10					15	
Leu	Leu	Leu	Gly	Gly	Ala	Trp	Ala	Gly	His	Ser	Arg	Ala	Gln	Glu	
				20					25					30	
Asp	Lys	Val	Leu	Gly	Gly	His	Glu	Cys	Gln	Pro	His	Ser	Gln	Pro	
				35					40					45	
Trp	Gln	Ala	Ala	Leu	Phe	Gln	Gly	Gln	Gln	Leu	Leu	Cys	Gly	Gly	
				50					55					60	
Val	Leu	Val	Gly	Gly	Asn	Trp	Val	Leu	Thr	Ala	Ala	His	Cys	Lys	
				65					70					75	
Lys	Pro	Lys	Tyr	Thr	Val	Arg	Leu	Gly	Asp	His	Ser	Leu	Gln	Asn	
				80					85					90	
Lys	Asp	Gly	Pro	Glu	Gln	Glu	Ile	Pro	Val	Val	Gln	Ser	Ile	Pro	
				95					100					105	
His	Pro	Cys	Tyr	Asn	Ser	Ser	Asp	Val	Glu	Asp	His	Asn	His	Asp	
				110					115					120	
Leu	Met	Leu	Leu	Gln	Leu	Arg	Asp	Gln	Ala	Ser	Leu	Gly	Ser	Lys	
				125					130					135	
Val	Lys	Pro	Ile	Ser	Leu	Ala	Asp	His	Cys	Thr	Gln	Pro	Gly	Gln	
				140					145					150	
Lys	Cys	Thr	Val	Ser	Gly	Trp	Gly	Thr	Val	Thr	Ser	Pro	Arg	Glu	
				155					160					165	
Asn	Phe	Pro	Asp	Thr	Leu	Asn	Cys	Ala	Glu	Val	Lys	Ile	Phe	Pro	
				170					175					180	
Gln	Lys	Lys	Cys	Glu	Asp	Ala	Tyr	Pro	Gly	Gln	Ile	Thr	Asp	Gly	
				185					190					195	
Met	Val	Cys	Ala	Gly	Ser	Ser	Lys	Gly	Ala	Asp	Thr	Cys	Gln	Gly	
				200					205					210	
Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Asp	Gly	Ala	Leu	Gln	Gly	Ile	
				215					220					225	
Thr	Ser	Trp	Gly	Ser	Asp	Pro	Cys	Gly	Arg	Ser	Asp	Lys	Pro	Gly	
				230					235					240	
Val	Tyr	Thr	Asn	Ile	Cys	Arg	Tyr	Leu	Asp	Trp	Ile	Lys	Lys	Ile	
				245					250					255	
Ile	Gly	Ser	Lys	Gly											
				260											

<210> 8

<211> 260

<212> PRT

<213> *Mus sp.*

<220>

<223> Amino acid sequence of mouse neuropsin homologous to TADG-14; accession no. D30785

<400> 8

Met	Gly	Arg	Pro	Pro	Pro	Cys	Ala	Ile	Gln	Pro	Trp	Ile	Leu	Leu	
				5					10					15	

Leu	Leu	Phe	Met	Gly	Ala	Trp	Ala	Gly	Leu	Thr	Arg	Ala	Gln	Gly	
				20					25					30	
Ser	Lys	Ile	Leu	Glu	Gly	Arg	Glu	Cys	Ile	Pro	His	Ser	Gln	Pro	
				35					40					45	
Trp	Gln	Ala	Ala	Leu	Phe	Gln	Gly	Glu	Arg	Leu	Ile	Cys	Gly	Gly	
				50					55					60	
Val	Leu	Val	Gly	Asp	Arg	Trp	Val	Leu	Thr	Ala	Ala	His	Cys	Lys	
				65					70					75	
Lys	Gln	Lys	Tyr	Ser	Val	Arg	Leu	Gly	Asp	His	Ser	Leu	Gln	Ser	
				80					85					90	
Arg	Asp	Gln	Pro	Glu	Gln	Glu	Ile	Gln	Val	Ala	Gln	Ser	Ile	Gln	
				95					100					105	
His	Pro	Cys	Tyr	Asn	Asn	Ser	Asn	Pro	Glu	Asp	His	Ser	His	Asp	
				110					115					120	
Ile	Met	Leu	Ile	Arg	Leu	Gln	Asn	Ser	Ala	Asn	Leu	Gly	Asp	Lys	
				125					130					135	
Val	Lys	Pro	Val	Gln	Leu	Ala	Asn	Leu	Cys	Pro	Lys	Val	Gly	Gln	
				140					145					150	
Lys	Cys	Ile	Ile	Ser	Gly	Trp	Gly	Thr	Val	Thr	Ser	Pro	Gln	Glu	
				155					160					165	
Asn	Phe	Pro	Asn	Thr	Leu	Asn	Cys	Ala	Glu	Val	Lys	Ile	Tyr	Ser	
				170					175					180	
Gln	Asn	Lys	Cys	Glu	Arg	Ala	Tyr	Pro	Gly	Lys	Ile	Thr	Glu	Gly	
				185					190					195	
Met	Val	Cys	Ala	Gly	Ser	Ser	Asn	Gly	Ala	Asp	Thr	Cys	Gln	Gly	
				200					205					210	
Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Asp	Gly	Met	Leu	Gln	Gly	Ile	
				215					220					225	
Thr	Ser	Trp	Gly	Ser	Asp	Pro	Cys	Gly	Lys	Pro	Glu	Lys	Pro	Gly	
				230					235					240	
Val	Tyr	Thr	Lys	Ile	Cys	Arg	Tyr	Thr	Thr	Trp	Ile	Lys	Lys	Thr	
				245					250					255	
Met	Asp	Asn	Arg	Asp											
				260											

<210> 9
 <211> 262
 <212> PRT
 <213> *Homo sapiens*

<220>
 <223> Amino acid sequence of human glandular kallikrein (hHk2); accession no. P06870

Met	Trp	Phe	Val	Leu	Cys	Leu	Ala	Leu	Ser	Leu	Gly	Gly	Thr	Gly	
				5					10					15	
Ala	Ala	Pro	Pro	Pro	Ile	Gln	Ser	Arg	Ile	Val	Gly	Gly	Trp	Glu	
				20					25					30	
Gly	Glu	Gln	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Tyr	His	Phe	
				35					40					45	
Ser	Thr	Phe	Gln	Cys	Gly	Gly	Ile	Leu	Val	His	Arg	Gln	Trp	Val	
				50					55					60	

Leu	Thr	Ala	Ala	His	Cys	Ile	Ser	Asp	Asn	Tyr	Gln	Leu	Trp	Leu	
				65					70					75	
Gly	Arg	His	Asn	Leu	Phe	Asp	Asp	Glu	Asn	Thr	Ala	Gln	Phe	Val	
				80					85					90	
His	Val	Ser	Glu	Ser	Phe	Pro	His	Pro	Gly	Phe	Asn	Met	Ser	Leu	
				95					100					105	
Leu	Glu	Asn	His	Thr	Arg	Gln	Ala	Asp	Glu	Asp	Tyr	Ser	His	Asp	
				110					115					120	
Leu	Met	Leu	Leu	Arg	Leu	Thr	Glu	Pro	Ala	Asp	Thr	Ile	Thr	Asp	
				125					130					135	
Ala	Val	Lys	Val	Val	Glu	Leu	Pro	Thr	Gln	Glu	Pro	Glu	Val	Gly	
				140					145					150	
Ser	Thr	Cys	Leu	Ala	Ser	Gly	Trp	Gly	Ser	Ile	Glu	Pro	Glu	Asn	
				155					160					165	
Phe	Ser	Phe	Pro	Asp	Asp	Leu	Gln	Cys	Val	Asp	Leu	Lys	Ile	Leu	
				170					175					180	
Pro	Asn	Asp	Glu	Cys	Glu	Lys	Ala	His	Val	Gln	Lys	Val	Thr	Asp	
				185					190					195	
Phe	Met	Leu	Cys	Val	Gly	His	Leu	Glu	Gly	Gly	Lys	Asp	Thr	Cys	
				200					205					210	
Val	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Met	Cys	Asp	Gly	Val	Leu	Gln	
				215					220					225	
Gly	Val	Thr	Ser	Trp	Gly	Tyr	Val	Pro	Cys	Gly	Thr	Pro	Asn	Lys	
				230					235					240	
Pro	Ser	Val	Ala	Val	Arg	Val	Leu	Ser	Tyr	Val	Lys	Trp	Ile	Glu	
				245					250					255	
Asp	Thr	Ile	Ala	Glu	Asn	Ser									
				260											

<210> 10
 <211> 261
 <212> PRT
 <213> *Homo sapiens*

<220>
 <223> Amino acid sequence of Prostate Specific Antigen (hPSA); accession no. P07288

<400>				10	
Met	Trp	Val	Pro	Val	Val Phe Leu Thr Leu Ser Val Thr Trp Ile
				5	10 15
Gly	Ala	Ala	Pro	Leu	Ile Leu Ser Arg Ile Val Gly Gly Trp Glu
				20	25 30
Cys	Glu	Lys	His	Ser	Gln Pro Trp Gln Val Leu Val Ala Ser Arg
				35	40 45
Gly	Arg	Ala	Val	Cys	Gly Gly Val Leu Val His Pro Gln Trp Val
				50	55 60
Leu	Thr	Ala	Ala	His	Cys Ile Arg Asn Lys Ser Val Ile Leu Leu
				65	70 75
Gly	Arg	His	Ser	Leu	Phe His Pro Glu Asp Thr Gly Gln Val Phe
				80	85 90
Gln	Val	Ser	His	Ser	Phe Pro His Pro Leu Tyr Asp Met Ser Leu
				95	100 105

Leu	Lys	Asn	Arg	Phe	Leu	Arg	Pro	Gly	Asp	Asp	Ser	Ser	His	Asp
				110					115					120
Leu	Met	Leu	Leu	Arg	Leu	Ser	Glu	Pro	Ala	Glu	Leu	Thr	Asp	Ala
				125					130					135
Val	Lys	Val	Met	Asp	Leu	Pro	Thr	Gln	Glu	Pro	Ala	Leu	Gly	Thr
				140					145					150
Thr	Cys	Tyr	Ala	Ser	Gly	Trp	Gly	Ser	Ile	Glu	Pro	Glu	Glu	Phe
				155					160					165
Leu	Thr	Pro	Lys	Lys	Leu	Gln	Cys	Val	Asp	Leu	His	Val	Ile	Ser
				170					175					180
Asn	Asp	Val	Cys	Ala	Gln	Val	His	Pro	Gln	Lys	Val	Thr	Lys	Phe
				185					190					195
Met	Leu	Cys	Ala	Gly	Arg	Trp	Thr	Gly	Gly	Lys	Ser	Thr	Cys	Ser
				200					205					210
Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Asn	Gly	Val	Leu	Gln	Gly
				215					220					225
Ile	Thr	Ser	Trp	Gly	Ser	Glu	Pro	Cys	Ala	Leu	Pro	Glu	Arg	Pro
				230					235					240
Ser	Leu	Tyr	Thr	Lys	Val	Val	His	Tyr	Arg	Lys	Trp	Ile	Lys	Asp
				245					250					255
Thr	Ile	Val	Ala	Asn	Pro									
				260										

<210> 11
 <211> 244
 <212> PRT
 <213> *Homo sapiens*

<220>
 <223> Amino acid sequence of human protease m (hProM);
 accession no. U62801

<400>				11	
Met	Lys	Lys	Leu	Met	Val Val Leu Ser Leu Ile Ala Ala Ala Trp
				5	10 15
Ala	Glu	Glu	Gln	Asn	Lys Leu Val His Gly Gly Pro Cys Asp Lys
				20	25 30
Thr	Ser	His	Pro	Tyr	Gln Ala Ala Leu Thr Tyr Ser Gly His Leu
				35	40 45
Leu	Cys	Gly	Gly	Val	Leu Ile His Pro Leu Trp Val Leu Thr Ala
				50	55 60
Ala	His	Cys	Lys	Lys	Pro Asn Leu Gln Val Phe Leu Gly Lys His
				65	70 75
Asn	Leu	Arg	Gly	Arg	Glu Ser Ser Gln Glu Gln Ser Ser Val Val
				80	85 90
Arg	Ala	Val	Ile	His	Pro Asp Tyr Asp Ala Ala Ser His Asp Gln
				95	100 105
Asp	Ile	Met	Leu	Leu	Arg Leu Ala Arg Pro Ala Lys Leu Ser Glu
				110	115 120
Leu	Ile	Gln	Pro	Leu	Pro Leu Glu Arg Asp Cys Ser Ala Asn Thr
				125	130 135
Thr	Ser	Cys	His	Ile	Leu Gly Trp Gly Lys Thr Ala Asp Gly Asp
				140	145 150

Phe	Pro	Asp	Thr	Ile	Gln	Cys	Ala	Tyr	Ile	His	Leu	Val	Ser	Arg
				155					160					165
Glu	Glu	Cys	Glu	His	Ala	Tyr	Pro	Gly	Gln	Ile	Thr	Gln	Asn	Met
				170					175					180
Leu	Cys	Ala	Gly	Asp	Glu	Lys	Tyr	Gly	Lys	Asp	Ser	Cys	Gln	Gly
				185					190					195
Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Gly	Asp	His	Ile	Arg	Gly	Leu
				200					205					210
Val	Ser	Trp	Gly	Asn	Ile	Pro	Cys	Gly	Ser	Lys	Glu	Lys	Pro	Gly
				215					220					225
Val	Tyr	Thr	Asn	Val	Cys	Arg	Tyr	Thr	Asn	Trp	Ile	Gln	Lys	Thr
				230					235					240
Ile	Gln	Ala	Lys											

<210> 12
 <211> 20
 <212> DNA
 <213> artificial sequence

<220>
 <221> primer
 <223> Sense primer for TADG14 specific PCR

<400> 12
 acagtacgcc tgggagacca 20

<210> 13
 <211> 20
 <212> DNA
 <213> artificial sequence

<220>
 <221> primer
 <223> Anti-sense primer for TADG14 specific PCR

<400> 13
 ctgagacggt gcaattctgg 20

<210> 14
 <211> 12
 <212> PRT
 <213> artificial sequence

<220>
 <223> Peptide sequence of immunogenic poly-lysine
 linked multiple antigen (T14-1) derived from
 TADG-14 used to produce polyclonal antibodies

<400> 14
 Lys Tyr Thr Val Arg Leu Gly Asp His Ser Leu Gln
 5 10

<210> 15
 <211> 12

<212> PRT
 <213> artificial sequence

 <220>
 <223> Peptide sequence of immunogenic poly-lysine
 linked multiple antigen (T14-2) derived from
 TADG-14 used to produce polyclonal antibodies

 <400> 15
 Gly His Glu Cys Gln Pro His Ser Gln Pro Trp Gln
 5 10

 <210> 16
 <211> 12
 <212> PRT
 <213> artificial sequence

 <220>
 <223> Peptide sequence of immunogenic poly-lysine
 linked multiple antigen (T14-3) derived from
 TADG-14 used to produce polyclonal antibodies

 <400> 16
 Leu Asp Trp Ile Lys Lys Ile Ile Gly Ser Lys Gly
 5 10

 <210> 17
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

 <220>
 <223> Residues 55-63 of the TADG-14 protein

 <400> 17
 Gln Leu Leu Cys Gly Gly Val Leu Val
 5

 <210> 18
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

 <220>
 <223> Residues 15-23 of the TADG-14 protein

 <400> 18
 Leu Leu Leu Leu Gly Gly Ala Trp Ala
 5

 <210> 19
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>
 <223> Residues 60-68 of the TADG-14 protein

 <400> 19
 Gly Val Leu Val Gly Gly Asn Trp Val
 5

 <210> 20
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

 <220>
 <223> Residues 61-69 of the TADG-14 protein

 <400> 20
 Val Leu Val Gly Gly Asn Trp Val Leu
 5

 <210> 21
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

 <220>
 <223> Residues 49-57 of the TADG-14 protein

 <400> 21
 Ala Leu Phe Gln Gly Gln Gln Leu Leu
 5

 <210> 22
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

 <220>
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 <210> 23
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 <212> PRT
 <213> *Homo sapiens*

 <220>
 <223> Residues 131-139 of the TADG-14 protein

 <400> 23
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5

<210> 24
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 <212> PRT
 <213> *Homo sapiens*

<220>
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 5

<210> 25
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 <212> PRT
 <213> *Homo sapiens*

<220>
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<210> 26
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<220>
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<210> 28
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 <210> 31
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 <220>
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 <210> 32
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<210> 33
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 <212> PRT
 <213> *Homo sapiens*

<220>
 <223> Residues 183-191 of the TADG-14 protein

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<210> 34
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>
 <223> Residues 192-200 of the TADG-14 protein

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<210> 35
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<220>
 <223> Residues 71-79 of the TADG-14 protein

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<210> 36
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 <212> PRT
 <213> *Homo sapiens*

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 <223> Residues 113-121 of the TADG-14 protein

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<210> 37
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 <210> 38
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 <210> 39
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 <210> 40
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<210> 45
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<220>
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<210> 46
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<220>
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 <210> 47
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 <210> 48
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 <210> 49
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 <220>
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 5

 <210> 50
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Arg Pro Arg Pro Arg Ala Ala Lys Thr
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<210> 51
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<220>
<223> Residues 162-170 of the TADG-14 protein

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Ser Pro Arg Glu Asn Phe Pro Asp Thr
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<210> 52
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<220>
<223> Residues 188-196 of the TADG-14 protein

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<210> 53
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<220>
<223> Residues 133-141 of the TADG-14 protein

<400> 53
Gly Ser Lys Val Lys Pro Ile Ser Leu
5

<210> 54
<211> 9
<212> PRT
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<220>
<223> Residues 73-81 of the TADG-14 protein

<400> 54
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<210> 55
<211> 9
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<213> *Homo sapiens*
 <220>
 <223> Residues 179-187 of the TADG-14 protein
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 <210> 56
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 <223> Residues 234-242 of the TADG-14 protein
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 <210> 57
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 <210> 58
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 <210> 59
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<210> 60
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<210> 61
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<220>
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<210> 62
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<220>
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<210> 63
<211> 9
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<213> *Homo sapiens*

<220>
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<210> 64
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<213> *Homo sapiens*
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 5
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 <210> 67
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 <223> Residues 114-122 of the TADG-14 protein
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 <210> 68
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Val Gln Ser Ile Pro His Pro Cys Tyr
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<210> 69
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<220>
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<210> 70
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<220>
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<210> 71
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<210> 72
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tgtgatgcc tggagtgcac catcacacac cagggggcct ccagaatcgc 200
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tacttctgca cagttgagag tgtcaggaaa attctctcgg ggactgggtga 350
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cagttgaaga agcatcagat catgggttggt gtcctccaca tcgctgctgt 500
tgtagcaggg gtgtgggatg gactgaacca caggatatttc ttgctctggg 550
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attacgtaac ttctaatttg aagccctttc ctcatctgtg ttttatgtcc 1050
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<210>      73
<211>      21
<212>      DNA
<213>      artificial sequence

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<220>
<223>      Sense primer for TADG-14, exon 2 to exon 3

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<400>      73
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<210>      74
<211>      21
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<213>      artificial sequence

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<220>
<223>      Antisense primer for TADG-14, exon 2 to exon 3

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<210>      75
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<213>      Homo sapiens

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<220>
<223>      TADG-14 variant protein

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<400>      75

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Leu	Thr	Lys	Leu	Tyr	Ala	Glu	Asn	Leu	Pro	Cys	Val	His	Leu	Asn
				35					40					45
Pro	Gln	Trp	Pro	Ser	Gln	Pro	Ser	His	Cys	Pro	Arg	Gly	Trp	Arg
				50					55					60
Ser	Asn	Pro	Leu	Pro	Pro	Ala	Ala	Gly	His	Ser	Arg	Ala	Gln	Glu
				65					70					75
Asp	Lys	Val	Leu	Gly	Gly	His	Glu	Cys	Gln	Pro	His	Ser	Gln	Pro
				80					85					90
Trp	Gln	Ala	Ala	Leu	Phe	Gln	Gly	Gln	Gln	Leu	Leu	Cys	Gly	Gly
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Val	Leu	Val	Gly	Gly	Asn	Trp	Val	Leu	Thr	Ala	Ala	His	Cys	Lys
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Lys	Pro	Lys	Tyr	Thr	Val	Arg	Leu	Gly	Asp	His	Ser	Leu	Gln	Asn
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Lys	Asp	Gly	Pro	Glu	Gln	Glu	Ile	Pro	Val	Val	Gln	Ser	Ile	Pro
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His	Pro	Cys	Tyr	Asn	Ser	Ser	Asp	Val	Glu	Asp	His	Asn	His	Asp
				155					160					165
Leu	Met	Leu	Leu	Gln	Leu	Arg	Asp	Gln	Ala	Ser	Leu	Gly	Ser	Lys
				170					175					180
Val	Lys	Pro	Ile	Ser	Leu	Ala	Asp	His	Cys	Thr	Gln	Pro	Gly	Gln
				185					190					195
Lys	Cys	Thr	Val	Ser	Gly	Trp	Gly	Thr	Val	Thr	Ser	Pro	Arg	Glu
				200					205					210
Asn	Phe	Pro	Asp	Thr	Leu	Asn	Cys	Ala	Glu	Val	Lys	Ile	Phe	Pro
				215					220					225
Gln	Lys	Lys	Cys	Glu	Asp	Ala	Tyr	Pro	Gly	Gln	Ile	Thr	Asp	Gly
				230					235					240
Met	Val	Cys	Ala	Gly	Ser	Ser	Lys	Gly	Ala	Asp	Thr	Cys	Gln	Gly
				245					250					255
Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Asp	Gly	Ala	Leu	Gln	Gly	Ile
				260					265					270
Thr	Ser	Trp	Gly	Ser	Asp	Pro	Cys	Gly	Arg	Ser	Asp	Lys	Pro	Gly
				275					280					285
Val	Tyr	Thr	Asn	Ile	Cys	Arg	Tyr	Leu	Asp	Trp	Ile	Lys	Lys	Ile
				290					295					300
Ile	Gly	Ser	Lys	Gly										
				305										